

### Abstract of the Disclosure

A method and apparatus for displaying a grayscale of a plasma display panel are provided. In the method, an externally input image signal is divided into frames and each frame  
5 is divided into a plurality of subfields allocated a predetermined brightness value. The method includes detecting a frequency of each grayscale, which indicates the number of cells to be displayed for each grayscale in a frame, comparing the frequency of each grayscale with a predetermined reference value, and adjusting at least one among the number of grayscales in the frame and the number of subfields in the frame according to the result of the comparison to set  
10 subfields in the frame.